PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2960/181WO	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 . as, where applicable, item 5 below.			
International application No.	ternational application No. International filing date (day/month/year) (Earliest) Priority Date (day/n		(Earliest) Priority Date (day/month/year)			
PCT/US2009/043656	12 May 2009		12 May 2008			
Applicant CONFORMIS, INC.						
This international search report has be according to Article 18. A copy is bein	en prepared by this Internation g transmitted to the Internation	onal Searching A nal Bureau.	Authority and is transmitted to the applicant			
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.						
l. Basis of the report						
a. With regard to the language, the	e international search was car	ried out on the b	asis of:			
the international app	lication in the language in wh	ich it was filed	·			
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.						
2. Certain claims were found unsearchable (see Box No. II)						
3. Unity of invention is lacking (see Box No. III)						
4. With regard to the title,						
the text is approved as sub	mitted by the applicant					
the text has been establish	ed by this Authority to read a	s follows:				
5. With regard to the abstract,						
the text is approved as sub	mitted by the applicant					
the text has been establish	ed according to Rule 38.2(b)	, by this Aùthori international sea	ty as it appears in Box No. IV. The applicant report, submit comments to this Authority			
6. With regard to the drawings,						
a. the figure of the drawings to be	e published with the abstract i	s Figure No. 1				
as suggested by the	applicant					
	Authority, because the applica					
as selected by this Authority, because this figure better characterizes the invention						
b. none of the figures is to be published with the abstract						

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2009/043656

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61F 2/30 (2009.01) USPC - 623/17.11 According to International Patent Classification (IPC) or to both national classification and IPC							
Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61F 2/30, 2/44 (2009.01) USPC - 623/17.11, 18.11							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MicroPatent							
C. DOCU	MENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.				
х	US 2007/0083266 A1 (LANG) 12 April 2007 (12.04.200	7) entire document	1-10, 12-28				
Ÿ			11, 29-32				
Υ	US 2007/0118222 A1 (LANG) 24 May 2007 (24.05.2007) entire document		11, 29–32				
	Lead in the continuation of Roy C						
Further documents are listed in the continuation of Box C. * Special categories of cited documents: "T" later document published after the international filing date or priority							
"A" document defining the general state of the art which is not considered to be of marticular relevance date and not in conflict with the application but clied to understand the principle or theory underlying the invention							
"E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive							
cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document in special reason (as specified)							
means "P" docum	means being obvious to a person skilled in the art "P" document published prior to the international filing date but later than "&" document member of the same patent family						
	ority date claimed actual completion of the international search	Date of mailing of the international sear	ch report				
1	22 June 2009 0 9 JUL 2009						
	Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents Authorized officer: Blaine R. Copenheaver						
P.O. Box 14	51, Attn: 137003, Commissional for Patents 50, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774					

Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

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JUL 1 3 2009

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

BROMBERG & SUNSTEIN LLP

To: KATHRYN E. NOLL BROMBERG & SUNSTEIN LLP 125 SUMMER STREET BOSTON, MA 02110		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
		Date of mailing (day/month/year)	-09 JUL 2009			
Applicant's or agent's file reference 2960/181WO		FOR FURTHER ACTION See paragraph 2 below				
DCT/I IS2000/01/13656	International filing date (12 May 2009	nte (day/month/year) Priority date (day/month/year) 12 May 2008				
International Patent Classification (IPC) or IPC(8) - A61F 2/30, A61F 2/44 (20 USPC - 623/17.11, 623/18.11 Applicant CONFORMIS, INC.	both national classificat 09,01)	tion and IPC				
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion						
Name and mailing address of the ISA/US Mall Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Date of completion of 22 June 2009	this opinion	Authorized officer: Blaine Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774			

Form PCT/ISA/237 (cover sheet) (April 2007)

International application No. PCT/US2009/043656

Box	No. 1	Basis of this opinion
	i-	
1.	,	regard to the language, this opinion has been established on the basis of:
	凶	the international application in the language in which it was filed. a translation of the international application into which is the language of a
	Ш	a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43 <i>bis</i> .1(a))
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been lished on the basis of:
	a. t	ype of material
	Į	a sequence listing
	l	table(s) related to the sequence listing
	ъ. ј	ormat of material
		on paper
		in electronic form
	с.	ime of filing/furnishing
		contained in the international application as filed
		filed together with the international application in electronic form
		furnished subsequently to this Authority for the purposes of search
4.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Ado	litional comments:
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International application No. PCT/US2009/043656

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Statement YES 2-5, 9, 11-13, 15-18, 20-32 Claims Novelty (N) NO 1, 6-8, 10, 14, 19 Claims YES None Claims Inventive step (IS) 1-32 Claims 1-32 YES Industrial applicability (IA) Claims Claims None

2. Citations and explanations:

Claims 1, 6-8, 10, 14, and 19 lack novelty under PCT Article 33(2) as being anticipated by US 2007/0083266 A1 to Lang, hereinafter "I and "266".

Regarding Claim 1, Lang '266 discloses an interpositional device for use in a facet joint, comprising: a body configured to be inserted between articular surfaces of the facet joint (pg. 13, claim 1), the body having first and second articular surfaces and first and second ends, the first articular surface having contours configured to resist motion relative to an opposing articular surface when the device is inserted between articular surfaces of the facet joint, the second articular surface configured to facilitate motion relative to another opposing articular surface when the device is inserted between articular surfaces of a facet joint (pg. 13, claim 5).

Regarding Claim 6, Lang '266 discloses the interpositional device of Claim 1 wherein the contours of at least a portion of the first articular surface substantially conform to corresponding contours of the opposing articular surface (pg. 13, claim 5).

Regarding Claim 7, Lang '266 discloses the interpositional device of Claim 1 wherein at least a portion of the first articular surface substantially forms a negative of a corresponding portion of the opposing articular surface (pg. 8, para. [0067]).

Regarding Claim 8, Lang '266 discloses the interpositional device of Claim 1 wherein the first articular surface is configured to secure the device when implanted in the facet joint (pg. 13, claim 5 regarding the "first surface that is highly conforming to a first articular surface" and pg. 12, para. [0129]).

Regarding Claim 10, Lang '266 discloses the interpositional device of Claim 1 wherein the second articular surface is substantially smooth (pg. 13, claim 5).

Regarding Claim 14, Lang '266 discloses a patient-specific implant for use in a facet joint, comprising: a body configured to be inserted between articular surfaces of the facet joint (pg. 13, claim 1), the body having first and second articular surfaces, at least a portion of the first articular surface substantially conforming to a corresponding portion of a first articular surface of the facet joint, the second articular surface having a substantially smooth portion configured to engage and move relative to a second articular surface of the facet joint when the implant is placed between the first and second articular surfaces of the facet joint (pg. 13, claim 5).

Regarding Claim 19, Lang '266 discloses the interpositional device of Claim 14 wherein the first articular surface is configured to secure the device when implanted in the facet joint. (pg. 13, claim 5 regarding the "first surface that is highly conforming to a first articular surface" and pg. 12, para. [0129]).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Claims 2–5, 9, 12, 13, 15–18 and 20–28 lack an inventive step under PCT Article 33(3) as being obvious over Lang '266. Regarding Claim 2, Lang '266 discloses the interpositional device of Claim 1 but lacks the teaching wherein the first end is enlarged relative to a middle portion of the device. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein the first end is enlarged relative to a middle portion of the device (Fig. 2G). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 3, Lang '266 discloses the interpositional device of Claim 1 and teaches the interpositional device of Claim 2 but lacks the teaching wherein the first end forms a lip configured to engage at least one surface of the facet joint and thereby resist motion of the device relative to the facet joint. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein the first end forms a lip configured to engage at least one surface of the facet joint and thereby resist motion of the device relative to the facet joint (pg. 12, para. [0134] and [0137]). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 4, Lang '266 discloses the interpositional device of Claim 1 and teaches the interpositional device of Claim 2 but lacks the teaching wherein the first end is configured to be located in an inter-articular position when the interpositional device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein the first end is configured to be located in an inter-articular position when the interpositional device is implanted in the facet joint (pg. 12, para. [0134] and Fig. 2G). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 5, Lang '266 discloses the interpositional device of Claim 1 and teaches the interpositional device of Claim 2 but lacks the teaching wherein the first end is configured to be located in an extra-articular position when the interpositional device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein the first end is configured to be located in an extra-articular position when the interpositional device is implanted in the facet joint (pg. 12, para. [0134]). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 9, Lang '266 discloses the interpositional device of Claim 1 but lacks the teaching wherein at least a portion of the first articular surface is configured to interdigitate with a corresponding portion of the opposing articular surface when the device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein at least a portion of the first articular surface is configured to interdigitate with a corresponding portion of the opposing articular surface when the device is implanted in the facet joint (Fig. 2H). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 12, Lang '266 discloses the interpositional device of Claim 1 but lacks the teaching wherein the device further comprises an attachment mechanism configured to secure the device in a facet joint (pg. 9, para. [0082] regarding "attachment mechanisms can be provided to anchor the implant to the altered surface"). However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein the device further comprises an attachment mechanism configured to secure the device in a facet joint (pg. 9, para. [0082] regarding "attachment mechanisms can be provided to anchor the implant to the altered surface"). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 13, Lang '266 discloses the interpositional device of Claim 1 and teaches the interpositional device of Claim 12 but lacks the teaching wherein the attachment mechanism is at least one of a pin, fin, or screw. However, in an alternative, embodiment, Lang '266 teaches an interpositional device wherein the attachment mechanism is at least one of a pin, fin, or screw (pg. 9, para. [0082] and Fig 2T(5–7)). Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 15, Lang '266 discloses the implant of Claim 14 but lacks the teaching wherein the device further comprises a first end and a middle portion, wherein the first end is enlarged relative to a middle portion of the device (Fig. 2G). However, in an alternative embodiment, Lang '266 teaches an implant wherein the device further comprises a first end and a middle portion, wherein the first end is enlarged relative to a middle portion of the device (Fig. 2G). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Regarding Claim 16, Lang '266 discloses the implant of Claim 14 and teaches the implant of Claim 15 but lacks the teaching wherein the first end forms a cap configured to engage at least a portion of the facet joint and thereby resist motion of the device relative to the facet joint. However, in an alternative embodiment, Lang '266 teaches an implant wherein the first end forms a cap configured to engage at least a portion of the facet joint and thereby resist motion of the device relative to the facet joint (pg. 12, para. [0134] and [0137]). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 17, Lang '266 discloses the implant of Claim 14 and teaches the implant of Claim 15 but lacks the teaching wherein the first end is configured to be located in an inter-articular position when the interpositional device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an implant wherein the first end is configured to be located in an inter-articular position when the interpositional device is implanted in the facet joint (pg. 12, para. [0134] and Fig. 2G). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 18, Lang '266 discloses the implant of Claim 14 and teaches the implant of Claim 15 but lacks the teaching wherein the first end is configured to be located in an extra-articular position when the interpositional device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an implant wherein the first end is configured to be located in an extra-articular position when the interpositional device is implanted in the facet joint (pg. 12, para. [0134]). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 20, Lang '266 discloses the implant of Claim 14 but lacks the teaching wherein the implant further comprises first and second ends, wherein the first and second ends each are enlarged relative to a middle portion of the device. However, in an alternative embodiment, Lang '266 teaches an implant wherein the implant further comprises first and second ends, wherein the first and second ends each are enlarged relative to a middle portion of the device (Fig. 2G). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 21, Lang '266 discloses the Implant of Claim 14 but lacks the teaching wherein the Implant further comprises an attachment mechanism configured to secure the device in a facet joint. However, in an alternative embodiment, Lang '266 teaches an Implant wherein the Implant further comprises an attachment mechanism configured to secure the device in a facet joint (pg. 9, para. [0082] regarding "attachment mechanisms can be provided to anchor the implant to the altered surface"). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 22, Lang '266 discloses the implant of Claim 14 and teaches the implant of Claim 21 but lacks the teaching wherein the attachment mechanism is at least one of a pin, fin, or screw. However, in an alternative embodiment, Lang '266 teaches an implant wherein the attachment mechanism is at least one of a pin, fin, or screw (pg. 9, para. [0082] and Fig. 2T(5–7)). Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces.

Regarding Claim 23, Lang '266 discloses an interpositional device for use in decompressing (pg. 11, para. [0110]) regarding an "implant [that]...can be increased in one or more dimensions") a portion of a spine (pg. 11, para. [0110]), comprising: a body configured to be inserted between articular surfaces of a facet joint (pg. 13, claim 1), the body having first and second articular surfaces (pg. 13, claim 5), the first articular surface configured to move relative to an opposing articular surface when the device is in place (pg. 13, claim 5); wherein the first end portion is configured to resist motion of the body relative to the facet joint in at least one direction when the interpositional device is implanted (pg. 13, claim 5). Lang '266 lacks the teaching wherein an interpositional device having a first end portion and a middle portion further comprises the first end portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion. However, in an alternative embodiment, Lang '266 teaches an interpositional device having a first end portion and a middle portion further comprising the first end portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion having a thickness between the first and second articular surfaces that is larger than a corresponding thickness of the middle portion having a thickness between the first and second articular surfaces.

Regarding Claim 24, Lang '266 teaches the interpositional device of Claim 23 wherein at least a portion of the second articular surface includes contours that substantially conform to corresponding contours of a second articular surface (pg. 13, claim 5).

Regarding Claim 25, Lang '266 teaches the interpositional device of Claim 23 wherein at least a portion of the second articular surface substantially forms a negative of a corresponding portion of a second articular surface (pg. 8, para. [0067]).

Regarding Claim 26, Lang '266 teaches the interpositional device of Claim 23 wherein the second articular surface is configured to secure the device when implanted in the facet joint (pg. 13, claim 5 regarding the "first surface that is highly conforming to a first articular surface" and pg. 12, para. [0129]).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Regarding Claim 27, Lang '266 teaches the interpositional device of Claim 23 but lacks the teaching wherein at least a portion of the second articular surface is configured to interdigitate with a corresponding portion of a second articular surface when the device is implanted in the facet joint. However, in an alternative embodiment, Lang '266 teaches an interpositional device wherein at least a portion of the second articular surface is configured to interdigitate with a corresponding portion of a second articular surface when the device is implanted in the facet joint. Therefore, it would have been obvious to one of ordinary skill in the art to modify the implant of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the

Regarding Claim 28, Lang '266 teaches the interpositional device of Claim 23 wherein the first articular surface is substantially smooth

Claims 11 and 29-32 lack an inventive step under PCT Article 33(3) as being obvious over Lang '266 further in view of

US 2007/0118222 A1 to Lang, hereinafter "Lang '222."

Regarding Claim 11, Lang '266 discloses the interpositional device of Claim 1 but lacks the teaching wherein the second end is Regarding Claim 11, Lang 250 discloses the interpositional device of Claim 1 but lacks the teaching wherein the second entries enlarged relative to a middle portion of the device. However in an alternative embodiment, Lang '266 teaches an interpositional device wherein the second end is enlarged relative to a middle portion of the device (Fig. 26) and is configured to enlarge a space between first and second surfaces of the facet joint. Therefore, it would have been obvious to one of ordinary skill in the art to modify the interpositional device of Lang '266, as taught in the alternative embodiment, for the purpose of maintaining appropriate movement and stabilization of the device relative to the two articular surfaces. Lang '266 does not teach wherein the device is configured to enlarge a space between first and second surfaces of the facet joint.

Lang '222 teaches a device wherein the device is configured to enlarge a space between first and second surfaces of the facet joint. (pg. 8, para. [0088]). At the time of the invention, it would have been obvious to one skilled in the art to modify Lang '266 to include the increase joint spacing as taught by Lang '222. The motivation for doing so would have been to add functionality to the implant device.

Regarding Claim 29, Lang '266 discloses a device for use in relieving pressure on a portion of a spine, comprising: a body configured to be inserted between articular surfaces of a facet joint (pg. 13, claim 1), the body having first and second articular surfaces and an end portion, the first articular surface configured to engage a corresponding first surface of the facet joint when the device is implanted, the second articular surface configured to engage a corresponding second surface of the facet joint when the device is implanted, the end portion being relatively thicker in a direction between the first and second surfaces than an adjacent portion of the device (pg. 13, claim 5). Lang '266 does not teach a device wherein the end portion is configured to increase the spacing between the first and second surfaces of the facet joint when the device is implanted in the facet joint.

Lang '222 teaches a device wherein the end portion is configured to increase the spacing between the first and second surfaces of the facet joint when the device is implanted in the facet joint (pg. 8, para. [0088]).

At the time of the invention, it would have been obvious to one skilled in the art to modify Lang '266 to include the increase joint spacing as taught by Lang '222. The motivation for doing so would have been to add functionality to the implant device.

Regarding Claim 30, Lang '266 discloses a method for decompressing (pg. 11, para. [0110] regarding an "Implant [that]...can be increased in one or more dimensions") a portion of a spine (pg. 11, para, [0110]), comprising: Inserting an implant between first and second articular surfaces of a facet joint (pg. 13, claims 1 and 5). Lang '266 does not teach a method to expand a space between the articular surfaces and stabilize the implant in the facet joint such that the first and second surfaces remain in an expanded position for a period of time; wherein the portion of the spine decompresses as a result of the expanded space between the articular surfaces (pg. 8,

Lang '222 teaches a method to expand a space between the articular surfaces and stabilize the implant in the facet joint such that the first and second surfaces remain in an expanded position for a period of time; wherein the portion of the spine decompresses as a result of the expanded space between the articular surfaces (pg. 8, para. [0088]).

At the time of the invention, it would have been obvious to one skilled in the art to modify Lang '266 to include the increase joint spacing

as taught by Lang '222. The motivation for doing so would have been to add functionality to the implant device.

Regarding Claim 31, Lang '266 in view of Lang '222 teach the method of Claim 30. Lang '222 further teach wherein pressure on an adjacent interstitial space of the spine is reduced (pg. 8, para, [0088] and para, [0090]–[0092]). At the time of the invention, it would have been obvious to one skilled in the art to modify Lang '266 to include the pressure reduction as taught by Lang '222. The motivation for doing so would have been to add functionality to the implant device.

Regarding Claim 32, Lang '266 in view of Lang '222 teach the method of Claim 30. Lang '222 further teach wherein pain associated with pressure on the spine is subsequently reduced (pg. 8, para. [0088]). At the time of the invention, it would have been obvious to one skilled in the art to modify Lang '266 to include the pain reduction as taught by Lang '222. The motivation for doing so would have been to add functionality to the implant device.

Claims 1-32 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.